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CLAIMS

- 1. A media handling system for handling sheets of media, comprising:
- a pick roller structure having a circumferential media-contacting surface and arranged for rotation about a roller axis to contact and pick a sheet from an input source;
 - a drive roller structure arranged for rotation about a drive roller axis;
- a media path extending between the pick roller structure and the drive roller structure;
- a first guide structure positioned along a first longitudinal edge of the media path and providing a first media guide surface;
- a second guide structure positioned along a second longitudinal edge of the media path and providing a second media guide surface;

wherein the first and second guide surfaces are positioned to constrain the movement of a media sheet at a location in the media path between the pick roller structure and the drive roller structure, thereby reducing trailing edge print defects.

- 2. The system of Claim 1 wherein the media path portion between the first guide structure and the second guide structure has a media entrance adjacent the pick roller structure and a media exit adjacent the drive roller structure, and wherein the width of the media path portion is greater at the media exit than at the media entrance.
- 3. The system of Claim 2 wherein the media path portion tapers gradually from the media entrance to the media exit.
- 4. The system of Claim 1 wherein a spacing between the first guide surface and the second guide surface is in the range between .5 mm and 5 mm.
 - 5. The system of Claim 1 wherein the pick roller structure includes a plurality of spaced pick roller wheels, and wherein a corresponding plurality of pinch wheels are arranged to create nips between respective pick roller wheels and pinch wheels, and wherein the second guide structure is arranged to constrain a sheet of print media at regions between the nips, thereby reducing deformation of the print medium due to stresses exerted on the print medium at the nips.

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- 6. The system of Claim 5 wherein a spacing between the first guide structure and the second guide structure at said nips is in the range of .5 mm to 2 mm.
- 7. An inkjet printer with improved media control to reduce trailing edge print defects, comprising:

an input tray for holding a stack of sheets of print media;

an output tray for receiving output sheets of media subsequent to printing operations;

a media path extending between the input tray and the output tray;

a pick roller structure disposed on the media path having a circumferential mediacontacting surface and arranged for rotation about a roller axis to advance a sheet along the media path from the input tray;

a pick pinch roller structure arranged relative to the pick roller structure to define a pinch nip therebetween;

a drive roller structure disposed on the media path downstream of the pick roller structure and arranged for rotation about a drive roller axis;

a drive pinch roller structure arranged relative to the drive roller structure to define a drive nip therebetween;

a first guide structure positioned along a first longitudinal edge of the media path between the pick roller structure and the drive roller structure and providing a first media guide surface;

a second guide structure positioned along a second longitudinal edge of the media path between the pick roller structure and the drive roller structure and providing a second media guide surface;

wherein the first and second guide surfaces are positioned to constrain the movement of a media sheet in a portion of the media path between the pick roller structure and the drive roller structure, thereby reducing trailing edge print defects.

8. The printer of Claim 7 wherein the media path portion between the first guide structure and the second guide structure has a media entrance adjacent the pick roller structure and a media exit adjacent the drive roller structure, and wherein the width of the media path portion is greater at the media exit than at the media entrance.

- 9. The printer of Claim 8 wherein the media path portion tapers gradually from the media entrance to the media exit.
- 10. The printer of Claim 7 wherein a spacing between the first guide surface and the second guide surface is in the range between .5 mm and 5 mm.
- 11. The printer of Claim 7 wherein the pick roller structure includes a plurality of spaced pick roller wheels, said pick pinch roller structure includes a corresponding plurality of pinch wheels are arranged to create a plurality of pick nips between respective pick roller wheels and pinch wheels, and wherein the second guide structure is arranged to constrain a sheet of print media at regions between the plurality of pick nips, thereby reducing deformation of the print medium due to stresses exerted on the print medium at the nips.

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12. The printer of Claim 11 wherein a spacing between the first guide structure and the second guide structure at said plurality of pick nips is in the range of .5 mm to 2 mm.

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13. The printer of Claim 11 wherein the media path portion between the first guide structure and the second guide structure has a media entrance adjacent the pick roller structure and a media exit adjacent the drive roller structure, and wherein the width of the media path portion is greater at the media exit than at the media entrance.

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